

Academia Industry Training 2016: Participants Switzerland

Name: Cosimo Aprile

University: EPF Lausanne

Project/Product Name: *Neural Signal Acquisition System*

Short Project Description: Wireless implantable device capable of collecting, managing and processing the electrical activity of the brain, for in-house treatments and medical monitoring.

Website: none

Domain/Industry: Bio Engineering

Name: Stefano Basso

University: EAWAG - Swiss Federal Institute of Aquatic Science and Technology

Project/Product Name: *CATCH Watershed Solutions*

Short Project Description: CATCH provides assessment of water resources availability for small hydropower development in remote regions of countries affected by data scarcity.

Website: www.catchwater.ch

Domain/Industry: Energy, Environment, Engineering

Name: Pascal Brunner

University: ETH Zürich

Project/Product Name: *Vatorex AG*

Short Project Description: Hyperthermic honey bee treatment against the varroa mite.

Website: www.vatorex.ch

Domain/Industry: Agro-tech

Name: Emma Cavalli

University: ETH Zürich

Project/Product Name: *HA-TG, an injectable scaffold for cartilage repair*

Short Project Description: HA-TG is a bioengineered hydrogel with the potential to revolutionize cartilage repair surgical treatments.

Website: none

Domain/Industry: Bio-tech, Med-tech

Name: Soumya Sunder Dash

University: ETH Zürich

Project/Product Name: *Sleepiz*

Short Project Description: *Multidimensional sleep assessment device*

Website: none

Domain/Industry: Med-tech, Health monitoring

Name: Yannick Devaud

University: EPFL, University Hospital Zürich

Project/Product Name: *Minimally invasive surgical device for fetoscopy*

Short Project Description: The device intends to close the hole created by the catheter in the fetal membrane during fetoscopy.

Website: *none*

Domain/Industry: Med-tech

Name: Patrick von Schulthess

University: Zurich University of Applied Sciences (ZHAW)

Project/Product Name: *A new device to measure the thickness and the water content of human skin*

Short Project Description: A small and easy-to-use handheld device coupled with an app to measure certain skin parameters to provide information and give advice regarding the individual skin condition of the user.

Website: *www.opus-neoi.com/*

Domain/Industry: Health care, Skin care, Technology for cosmetics, Consumer electronics

Name: Clara Moldovan

University: EPF Lausanne

Project/Product Name: *High storage and fast charging carbon-based supercapacitors for mobile electronic devices*

Short Project Description: Development of carbon nanotubes organic supercapacitors with high energy storage and charging time of under 2 mins.

Website: *none*

Domain/Industry: Energy

Name: Alberto Schena

University: EPF Lausanne

Project/Product Name: *Lucentix*

Short Project Description: Handheld biosensors for home use that allow patients to do precise blood analysis, at anytime, anywhere, within minutes, from one drop of blood with a finger-prick.

Website: *www.lucentix.ch*

Domain/Industry: Med-tech

Name: Samuel Zürcher

University: University of Bern

Project/Product Name: *isoAMP*

Short Project Description: We provide a novel molecular technology for cost-effective and simple point-of-care diagnosis of microorganisms, enabling rapid and reliable treatment decisions

Website: *http://www.ifik.unibe.ch*

Domain/Industry: Bio-tech, Diagnostics

Academia Industry Training 2016: Participants Brazil

Name: Adriano Nogueira

University: University of São Paulo (USP)

Project/Product Name: *Development of non-invasive methods for health monitoring/Lecel*

Short Project Description: Perform clinical trials and develop software to analyze data from body parameter sensors in wearable devices and anticipate health status alterations.

Website: https://www.researchgate.net/profile/Adriano_Nogueira2

Domain/Industry: Med-tech

Name: Afonso Londero

University: Federal University of Santa Catarina (UFSC)

Project/Product Name: *Clean Power from Biodiesel Production Waste (Glycerol)*

Short Project Description: The biodiesel industry produces a huge amount of a contaminant waste, glycerol – we propose to convert this waste into electricity via a sustainable bioprocess.

Website: *none*

Domain/Industry: Bio-tech

Name: Diego Souza

University: Federal University of Rio de Janeiro (UFRJ)

Project/Product Name: *WESPA*

Short Project Description: Solutions for Indoor Positioning Systems

Website: *none*

Domain/Industry: Information and Communications Technology (IT)

Name: Glazieli Marangoni

University: University of Campinas (UNICAMP)

Project/Product Name: *Nanostructured Lipid Carriers for Drug Delivery*

Short Project Description: PhD in Chemical Engineer with experience in lipid crystallization. Researches on oils and fats technology, acting on lipid modification processes, lipids structuring and nanostructured lipid.

Website: *none*

Domain/Industry: Bio-tech

Name: Jean Faber

University: Federal University of São Paulo (UNIFESP)

Project/Product Name: *INTERFACE – Connecting Human Beings*

Short Project Description: INTERFACE: development of devices and protocols for people with physical and cognitive disabilities, in order to promote an interactive real-time communication with their environment.

Website: *none*

Domain/Industry: Med-tech, Rehabilitation

Name: Tatiana Tilli

University: Oswaldo Cruz Foundation (FIOCRUZ)

Project/Product Name: *Theranostic kit to breast cancer treatment*

Short Project Description: Development a theronostic kit to treat breast cancer patients based on personalized and individualized medicine

Website: *none*

Domain/Industry: Med-tech

Name: Vinícius Cassol

University: Pontifical Catholic University of Rio Grande do Sul (PUC-RS)

Project/Product Name: *CrowdSim*

Short Project Description: *Application of Crowd Simulation in order to evaluate evacuation plans*

Website: *none*

Domain/Industry: IT

Name: Leandro Berti

University: CERTI Foundation

Project/Product Name: *Subcutaneous hormonal nanostructured implant for animals breeding*

Short Project Description: The nanoimplante releases gradually and continuously progesterone in the blood to control pregnancy in mares during the process of embryo transfer (ET)

Website: *none*

Domain/Industry: Nanotechnology

Name: Maria Magalhães

University: State University of Santa Catarina (UDESC)

Project/Product Name: *DNA purification kit*

Short Project Description: The initial goal of our project is to produce universal kits for purification of DNA samples from different sources. We will be the first industry to produce these kits in Brazil. Next, we are developing antibody like molecules to replace secondary antibodies used worldwide in research and diagnosis.

Website: *none*

Domain/Industry: Bio-tech

Name: Mateus Carlesso

University: Federal University of Santa Catarina (UFSC)

Project/Product Name: *Revella Technology*

Short Project Description: Revella is Brazilian startup focused on research and development of biotechnology-related products. Revella's market focuses is agribusiness, specifically the meat industry. The main product development it is an innovative revealing salmonella kit.

Website: <http://sc5.sinapsedainovacao.com.br/sc5/empresa/revella-tecnologia>

Domain/Industry: Bio-tech, Nanotechnology